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 ... 3, 1996 [54] METHOD AND SYSTEM FOR CREATING AND **VALIDATING** LOW LEVEL  
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A Sinha, SK Gupta, MA Breuer - IEEE Transactions on Advanced ..., 2002 - ee.isu.edu.tw  
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 speedup may increase when **parasitic** inductances are considered. ... The oscillatory **behavior** is  
 due to the mismatch of imped- ances at the driver and receiver ends. ...  
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 ... voltage. Results are presented on Fig. 6. Another **validation** can be made by comparison  
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G Elst, P Schneider, P Ramm - MATERIALS RESEARCH SOCIETY ..., 2007 - mrs.org  
 ... 3. **Model validation** The preparation and the measurements of test structures and test circuits ... of  
 Crosstalk The developed accurate circuit models, reduced-order models, and **behavioral** models  
 can ... Thus, the influence of **parasitic** effects on the circuit **behavior** can be calculated. ...

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KG Wilson - International Journal of Psychology and Psychological ..., 2001 - ual.es

... of our thinking would, directly or indirectly, put an end to an entire **parasitic** netherworld ... events

is a key aspect of the philosophy of science undergirding contemporary **behavioral** psychology ...

I have also argued for certain criteria for construct formulation and **validation**, and that an ...

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P Couto, M Marcia B Il - Journal, of Thermofluidics and HeatTransfer, 2000 - lepton.ufsc.br

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**Validation** Paulo Couto ... of q; The PCR is ver' sensitive to heat loads and **parasitic** heat leakage. ...

by the sun shield ij4 to each stage determines its transient temperature **behavior**. ...

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... S., Lluch-Lafuente, A.: Directed explicit-state model checking in the **validation** of communication ...

Levin, S., Pimentel, D.: Selection of intermediate rates of increase in **parasite**-host systems. ... Ellis,

DR, Aiken, JG, Attwood, KS, Tenaglia, SD: A **behavioral** approach to worm detection ...

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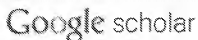
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[CITATION] **Parasitic Aware Optimization of an RF Power Scavenging Circuit with Applications ...**

T Sallera, G Metzger, N Goldsman

[Methods and Approaches for RF Circuit Simulation and Electromagnetic Modelling](#)

TAM Kevenaar, EJW ter Maten, H Janssen, ... - Scientific Computing in ..., 2004 - books.google.com

... However, when antennas are integrated on silicon [36], electromagnetic and circuit analysis must be combined. ... energy and visa versa) an antenna cannot be treated as a **parasitic** component and co ... The silicon substrate cannot be approximated by an **ideal** conductive plane. ...

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[PDF] [► Parasitic modeling and noise mitigation in advanced RF/mixed-signal silicon ...](#)

R Singh, YV Tretjakov, JB Johnson, SL ... - IEEE Transactions on ..., 2003 - emba.uvm.edu

... will be. An **ideal** inductor with no resistance and capacitance has infinite ... In that case, the use of **parasitic** extraction tools or 2-D field solvers is suggested. IV. ... Substrate coupling can degrade performance in small RF de- signs, as shown in Fig. 12. ...

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[BOOK] [Advanced techniques in RF power amplifier design - ►blogbus.com](#) [PDF]

SC Cripps - 2002 - books.google.com

... Section 1.3 attempts to reconcile some of the apparent conflict between observation and theory, showing that an **ideal** device with a ... Section 1.4 discusses the RF bipolar and its radically different formulation for reaching the same goal of linearity **combined** with high ...

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[PDF] [► Full-wave simulation of electromagnetic coupling effects in RF and mixed-signal ...](#)

DA White, M Stowell - IEEE Transactions on Microwave Theory and ..., 2004 - www-eng.llnl.gov

... It is well known that, at moderate operating frequencies, metal interconnects are not **ideal** and the self ... numerous numerical algorithms have been developed for static and low-frequency **parasitic** extraction [5 ... Equa- tions (1) and (2) can be **combined** to yield a second-order vector ...

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[PDF] [► Methods and Approaches for RF Circuit Simulation and Electromagnetic Modelling](#)

TAM Kevenaar, EJW ter Maten, H Janssen, SP ... - alexandria.tue.nl

... For a straight TEM transmission-line consisting of **ideal** conductors embedded in a homogeneous ... when antennas are integrated on silicon [36], electromagnetic and circuit analysis must be **combined**. ... and visa versa) an antenna cannot be treated as a **parasitic** component and ...

[Related articles](#) - [View as HTML](#) - [All 3 versions](#)

[PDF] [► Full wave simulation of SAW pattern package and SAW pattern inside package](#)

SH Lin, KH Lin, SC Chiu, CY Chen - IEEE Ultrasonics Symposium ..., 2003 - taisaw.com

... is shorter, relative to the size of the SAW filters, leading to increased **parasitic** effects ... static approximation that is based on circuit models consisting of a network of **ideal** inductors, capacitors ... The exported S parameters are then **combined** with the responses of IDTs to obtain ...

[Cited by 6](#) - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

[BOOK] [Modeling and simulation for RF system design](#)

R Frevert, J Haase, R Janke, U Knoche - 2005 - books.google.com

... At system level the RF subsystem was specified either with **ideal** parameters or with parameters ... After layout, **simulation** **parasitic** effects can be back-annotated into the circuit netlist. ... The designed

circuits can now be **combined** into functional blocks, which are checked against ...

[Cited by 10](#) - [Related articles](#)

[A layout-aware synthesis methodology for RF circuits](#) - [psu.edu](#) [PDF]

P Vancorenland, G Van der Plas, M Steyaert, G ... - Proceedings of the ..., 2001 - portal.acm.org

... At GHz frequencies, all the **parasitic** elements of both the active and passive elements also come ...

This approach is however not usable when sizing and layout are **combined** in one ... to optimize

the trade-off between these several specifications, making it an **ideal** candidate for ...

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[PDF] [Thermal simulations of III/V HEMTs](#)

R Quay, R Reuter, T Grasser, S ... - ... Electron Devices for ..., 1999 - publik.tuwien.ac.at

... changes from a maximum local temperature of about 360 K in the **ideal** case to a ... The obvious advantage of a **combined** electro-thermal simulation is that the impact of the ... behavior was obtained regarding the temperature dependence of the equivalent circuit **parasitic** elements. ...

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### Microelectromechanical capacitors for RF - ► [hut.fi](#) [PDF]

H Nieminen, V Ermolov, K Nybergh, S Silanto, T ... - ... of Micromechanics and ..., 2002 - iop.org  
 ... However, in reality the **parallel parasitic** capacitance limits the maximum control range and leakage ... Estimations for the capacitance values can be calculated using the **parallel plate** approximation ... this temperature-dependent stress affects the capacitance as a function of control ...  
[Cited by 42](#) - [Related articles](#) - [BL Direct](#) - [All 6 versions](#)

### [BOOK] CMOS RF modeling, characterization and applications

MJ Deen, TA Fjeldly - 2002 - books.google.com  
 ... Such cable shieldings exhibit **parasitic** capacitances ... schematic of either a resistor in series with the capacitor, or, commonly for modeling, a capacitor in **parallel** with a ... For such parameters, we have to measure the voltage or current as a function of frequency and bias at the ports ...  
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### NSGA-based parasitic-aware optimization of a 5GHz low-noise VCO

M Chu, DJ Allist, JM Huard, KY Wong - ... of the 2004 conference on Asia ..., 2004 - portal.acm.org  
 ... optimization techniques (original GA, PSO, etc.) that combine multiple objectives into a single cost function: sensitivity to ... multiple solutions along the Pareto optimal front as well as its efficiency in **parallel** execution. VI. ... [1] J. Park, K. Choi, and DJ Allist, "Parasitic-aware design ...  
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### FACET: a CAE system for RF analogue simulation including layout

RF Milsom, KJ Scott, SG Clark, JC McEntegart, ... - Proceedings of the 26th ..., 1989 - portal.acm.org  
 ... described. Layout-dependent effects such as **parasitic** electromagnetic coupling are included. ...  
 FACET, Functional Analysis of Circuits by Electromagnetic Theory, is a CAE ... FACET models all the features shown including an optional continuous ground plane **parallel** to the PCB, ...  
[Cited by 6](#) - [Related articles](#) - [All 3 versions](#)

### Simulation of high-power electromagnetic wave heating in the ITER burning ...

... Jaeger, LA Berry, EF D'azevedo, RF Barrett, SD Ahern, ... - Physics of Plasmas, 2008 - link.aip.org  
 ... Each code uses **parallel** computing architectures to perform the required calculations ... the D, , and Be species absorption is low, and interestingly, both codes predict low **parasitic** absorption of ... Although a weak tail forms on the tritium distribution function due to the rf heating (see ...  
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DJ Allist, K Choi, J Park - 2003 - books.google.com  
 ... LO LEAKAGE 96 3. Double Balanced Mixer 97 4. Design of Mixers 98 5. Optimization of Mixers 99 5.1 COST FUNCTION 99 5.2 PARAMETER TO BE OPTIMIZED 100 Page 12. x **Parasitic-aware** optimization of CMOS RF circuits 5.3 OPTIMIZATION SIMULATION RESULTS 100 ...  
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### [PDF] ► Accurate simulation of RF MEMS VCO performance including phase noise

M Behera, V Kratyuk, SK De, NR Aluru, Y Hu, ... - Journal of ..., 2005 - netfiles.uiuc.edu  
 ... Experimental results for the 2.4-GHz VCO, employing the two-parallel-plate MEMS capacitor made up of polysil- icon/gold have been ... As described in Section III, these **parasitic** capacitances have been accounted for in our simulations. ... (a) Capacitance as a function of voltage ...  
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[PDF] ► [Analysis, design, and optimization of spiral inductors and transformers for Si RF ICs](#)

AM Niknejad, RG Meyer - IEEE Journal of Solid-State Circuits, 1998 - Citeseer

... extracted inductance is not physical and contains the effects of the capacitive coupling, which tends to boost the inductance as a **function** of frequency, similar to a **parallel** tank. ... 6(b), which contain **parasitic** elements so that our extraction of inductance is more physical. ...

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[PDF] ► [Design of an RF CMOS Ultra-Wideband Amplifier Using Parasitic-Aware Synthesis ...](#)

J Park - 2003 - Citeseer

... from a number of active devices in **parallel** produces no improvement in the gain- bandwidth product. ... way that the effects of the shunt **parasitic** capacitances are not accumulated. Amplifiers ... Distributed amplifiers are used in many **RF** and high-data rate communication ...

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[PDF] ► [... electro-mechanically tunable capacitors and their applications to RF IC's](#)

A Dec, K Suyama - IEEE transactions on microwave theory and ..., 1998 - my.ece.ucsb.edu

... Fig. 1. **Functional** model of an electro-mechanically tunable **parallel**-plate capacitor with two **parallel** plates. ... The measurements include the **parasitic** capacitances of the pads. ... 9 shows a microphotograph of the tunable capacitor with two **parallel** plates (210 230 m capacitor). ...

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MS Chan, HL Guyatt, DAP Bundy, M Booth, AJC ... - Epidemiology and ... , 1995 - jstor.org

... The development of an age structured model for schistosomiasis transmission dynamics and control and its validation for Schistosoma mansoni ... INTRODUCTION Schistosomiasis is a major parasitic disease in many areas in the developing world. ... function of age and time. ...

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MD Rostoker, C Dangek, V Nagasamy, D Mintz - US Patent 5,544,066, 1996 - Google Patents

... FROM HIGHER LEVEL, BEHAVIOR-ORIENTED DESCRIPTION, INCLUDING ESTIMATION AND COMPARISON OF LOW ... 6, 1996 Sheet 2 of 18 DESIGN SPECIFICATION DESIGN DESCRIPTION FUNCTIONAL VERIFICATION (BEHAVIORAL ... g N D ^ z { ( ( IT UJ^0 to Ld 2 rf ^i a ...

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I Doerr, LT Hwang, G Sommer, H Oppermann, L Li, ... - Electronic Components ... , 2001 - Citeseer

... Subtraction of pad parasitic can be carried out as explained in Figure 6. ... obtained from measurement and simulation (using parameterized model), as function of geometry. ... Leonhardt, Wolfgang Fichtner: "Electromagnetic Simulation of Bonding Wires and Comparison with Wide ...

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[Functional genomics: identifying drug targets for parasitic diseases](#)

AF Cowman, BS Crabb - Trends in parasitology, 2003 - Elsevier

... Information on the potential function of these proteins was revealed but, most importantly, for ... bars indicate the relative gene expression ratio of a dye swap comparison between T/S ... Recently, transient transfection of the parasitic nematode Brugia malayi has been developed [32 ...

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Y Joannon, V Berouille, R Khouri, C Robach, S Tedjini, ... - 2006 - hal.archives-ouvertes.fr

... Post Layout Parasitic extraction ... Behavioral level is always located between functional level and structural level. ... 4.2.2 RX/TX validation with RF stimulus Comparison between measurements achieved on a real system prototype on silicon and simulation results are used to verify ...

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ME Frischer, RF Lee, MA Sheppard, A Mauer, F ... - Harmful Algae, 2006 - Elsevier

... Using DOI (Opens New Window). Copyright © 2005 Published by Elsevier BV Evidence for a free-living life stage of the blue crab parasitic dinoflagellate, Hematodinium sp. ME Frischer a , Corresponding Author Contact Information , E-mail The Corresponding Author , RF Lee a ...

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SD Mayor, DH Lenschow, RL Schwiesow, J ... - ... of Atmospheric and ... , 1997 - ams.allenpress.com

... The parasitic interferometer induces variability in the LO signal on the chilled detector, which affects system gain. ... (2). By dividing the mean spatial cospectrum by the transfer function Eq. ... Figure 24 is a comparison of the corrected spatial and temporal power spectra. ...

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S. Grivet-Talocia, P. Brenner, F.G. Canavero - IEEE International Symposium ..., 2007 - emc.polito.it

... between raw scattering data and fitted model for input- output transfer **function** (Lower Band ...

**Parasitic** extraction tools are applied to the layout in order to provide a broadband ... 8. **Comparison** between raw scattering data and parameterized model on the **validation** grid VDD = {2.5 ...

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S Steiner, R Mumm, J Ruther - Journal of chemical ecology, 2007 - Springer

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Profiles by ... hydrocarbons with respect to their potential role as semiochemicals in **parasitic** wasps. ...

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[Molecular tools for analysis of gene \*\*function\*\* in \*\*parasitic\*\* microorganisms](#)

M Meissner, C Agop-Neresesian, WJ Sullivan - Applied microbiology and ..., 2007 - Springer

... and proteomics provides clues to the putative functions of some predicted gene products, the

**validation** of these ... TD) of VP16 and the minimal promoter derived from cytomegalovirus (pCMV)

both appeared to be **non-functional** when intro- duced in the **parasite** (Meissner et ...

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M Chu, DJ Allstot, JM Huard, KY Wong - ... of the 2004 conference on Asia ..., 2004 - portal.acm.org  
... conventional optimization techniques (original GA, PSO, etc.) that combine multiple objectives into a single cost **function**: sensitivity to ... Compare: are solutions non-dominated ... fixed in a **simulation** run due to the unavailability of compact models for the **parasitic** components versus ...

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H Feng - Simulation - lios.ee.ucr.edu

... to demonstrate the influences of **parasitic** Ceqd on overall performance of a **functional** chip. ... at 1% of the output Conclusions In summary, a pair of novel, low-**parasitic** ESD protection ... A comprehensive **comparison** study of possible ESD side-effects on the high- speed circuits ...

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## ... a RF large signal MOSFET model, based on an equivalent circuit, and **comparison** ...

EP Vandamme, D Schreurs, C Van Dinther, G Badenes - Solid State Electronics, 2002 - Elsevier

... of a RF large signal MOSFET model, based on an equivalent circuit, and **comparison** with the ... To date, RF large signal models are mostly generated from dc, C-V and/or S ... The device's state functions can be represented either by **functional** descriptions or by look-up tables. ...

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► [soton.ac.uk](#) [PDF]

MR Hashim, RF Lever, P Ashburn - Solid State Electronics, 1999 - Elsevier

... studied and the collector/base reverse bias is varied to modulate the **parasitic** energy barrier ... used to predict the temperature dependence of the collector current for **comparison** with measurement. ... is able to predict both the measured collector current as a **function** of temperature ...

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## ... host searching behavior that leads to a sigmoid **functional** response in invertebrate ...

RF Luck, JC van Lenteren, PH Twine, L Jansen, T ... - ... on Population Ecology, 1979 - Springer

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I Doerr, LT Hwang, G Sommer, H Oppermann, L Li, ... - Electronic Components ..., 2001 - Citeseer

... Subtraction of pad **parasitic** can be carried out as explained in Figure 6 ... Unsymmetrical IT - M odel Figure 9: Compact model approximation of 3D full wave calculation, **comparison** of different ... For the example of the single wire bond, following **functional** dependencies are required ...

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DJ Allstot, K Choi, J Park - 2003 - books.google.com

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 ... A **comparison** of the 2D electric field contours from TORIC and AORSA shows remarkably similar ...  
 and Be species absorption is low, and interestingly, both codes predict low **parasitic** absorption  
 of ... Although a weak tail forms on the tritium distribution **function** due to the **rf** heating ...

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P Mushini, KP Roenker - Solid State Electronics, 2000 - Elsevier  
 ... of base pushout. We compare the results derived for the **parasitic** barrier height  
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AJ Scholten, LF Tiemeijer, R van Langevelde, ... - IEEE Transactions on ..., 2003 - mynxp.nxp.com  
 ... with the same channel length, but with a width of m. This **comparison** is shown ... 3. Nonquasi-static  
**RF** CMOS model, consisting of five channel seg- ments, and **parasitic** resistances and ... gate current  
 noise ( ), and their complex correlation coefficient are plotted as a **function** of the ...

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